

Project Title	Funding	Strategic Plan Objective	Institution
ACE Network: Multimodal developmental neurogenetics of females with ASD	\$2,670,192	Q2.S.B	Yale University
Sex differences in the neural mechanisms of treatment response	\$5,000	Q2.S.B	Yale University
Role of GABA interneurons in a genetic model of autism	\$62,500	Q2.S.D	Yale University
Pleiotropic roles of dyslexia genes in neurodevelopmental language impairments	\$36,724	Q2.S.D	Yale University
Investigating the etiology of childhood disintegrative disorder	\$74,970	Q2.S.F	Yale University
Identification of candidate genes at the synapse in autism spectrum disorders	\$168,245	Q2.S.G	Yale University
Genetic investigations of motor stereotypies	\$124,538	Q2.S.G	Yale University
Developmental neurogenetics in adolescents with autism	\$249,603	Q2.S.G	Yale University
Near-infrared spectroscopy studies of early neural signatures of autism	\$149,977	Q2.L.B	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Morphogenesis and function of the cerebral cortex	\$393,228	Q2.Other	Yale University
Functional analysis of EPHB2 mutations in autism - Project 1	\$89,633	Q2.Other	Yale University
Role of major vault protein in autism	\$0	Q2.Other	Yale University
Brain electrophysiology of interactive social stimuli	\$54,459	Q2.Other	Yale University
Functional analysis of EFR3A mutations associated with autism	\$62,500	Q2.Other	Yale University
The neural basis of weak central coherence in autism spectrum disorders	\$26,080	Q2.Other	Yale University
Social brain networks for the detection of agents and intentions	\$399,300	Q2.Other	Yale University
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	\$0	Q2.Other	Yale University
Attention & word learning in children with ASD- Translating experimental findings into intervention	\$53,500	Q2.Other	Women & Infants Hospital
Allelic choice in Rett syndrome	\$374,862	Q2.S.D	Winifred Masterson Burke Medical Research Institute
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	\$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Genetically defined stem cell models of Rett and fragile X syndrome	\$350,000	Q2.S.D	Whitehead Institute for Biomedical Research
Genetic model to study the ASD-associated gene A2BP1 and its target PAC1	\$125,000	Q2.Other	Weizmann Institute of Science
Local connectivity in altered excitation/inhibition balance states	\$125,000	Q2.Other	Weizmann Institute of Science

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Comprehensive phenotypic characterization of the 17q12 deletion syndrome	\$125,000	Q2.S.G	Weis Center for Research - Geisinger Clinic
Simons Variation in Individuals Project (VIP) Recruitment Coordination Site	\$216,139	Q2.S.G	Weis Center for Research - Geisinger Clinic
Role of neuronal migration genes in synaptogenesis and plasticity	\$53,942	Q2.Other	Weill Cornell Medical College
High metabolic demand of fast-spiking cortical interneurons underlying the etiology of autism	\$56,000	Q2.Other	Weill Cornell Medical College
Pathogenic roles of paternal-age-associated mutations in autism	\$62,500	Q2.Other	Weill Cornell Medical College
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	\$56,900	Q2.Other	Washington University in St. Louis
The role of brainstem NTS inflammation and oxidative stress in Autism	\$43,000	Q2.S.A	Wadsworth Center
VIP Family Meetings	\$121,016	Q2.S.G	VIP Family Meetings
mTOR modulation of myelination	\$178,659	Q2.S.D	Vanderbilt University Medical Center
Genetic and developmental analyses of fragile X mental retardation protein	\$378,771	Q2.S.D	Vanderbilt University Medical Center
Predicting phenotypic trajectories in Prader-Willi syndrome	\$294,904	Q2.S.D	Vanderbilt University Medical Center
Psychobiological investigation of the socioemotional functioning in autism	\$333,590	Q2.Other	Vanderbilt University Medical Center
Neurobehavioral investigation of tactile features in autism spectrum disorders	\$161,107	Q2.Other	Vanderbilt University Medical Center
Fragile X syndrome target analysis and its contribution to autism	\$259,025	Q2.S.D	Vanderbilt University
Characterization of the sleep phenotype in adolescents and adults with autism spectrum disorder	\$150,000	Q2.S.E	Vanderbilt University
Grammatical development in boys with fragile X syndrome and autism	\$141,075	Q2.S.D	University of Wisconsin - Madison
Translational regulation of adult neural stem cells	\$359,977	Q2.S.D	University of Wisconsin - Madison
Biological determinants of brain variation in autism	\$652,672	Q2.S.G	University of Wisconsin - Madison
Executive function in children with typical and atypical language abilities	\$493,697	Q2.Other	University of Wisconsin - Madison
Macrocephalic autism: Exploring and exploiting the role of PTEN	\$0	Q2.Other	University of Wisconsin - Madison
Statistical word learning in children with language disorders	\$29,355	Q2.Other	University of Wisconsin - Madison
Speech disorders in individuals with 16p11.2 deletion or duplication	\$40,000	Q2.S.G	University of Wisconsin

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Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$194,903	Q2.S.D	University of Washington
Simons Variation in Individuals Project (VIP) Site	\$508,680	Q2.S.G	University of Washington
Social processing, language, and executive functioning in twin pairs: Electrophysiological and behavioral endophenotypes	\$0	Q2.S.G	University of Washington
Electrophysiological response to executive control training in autism	\$89,670	Q2.Other	University of Washington
Networked cortical responses to movement associated with ASD	\$384,222	Q2.Other	University of Washington
Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$345,000	Q2.Other	University of Washington
Fever, meningeal immunity and immune factors in autism	\$59,500	Q2.S.A	University of Virginia
Bone marrow transplantation and the role of microglia in autism	\$109,651	Q2.S.A	University of Virginia
20-year outcome of autism	\$0	Q2.L.A	University of Utah
Longitudinal characterization of functional connectivity in autism	\$182,352	Q2.L.A	University of Utah
The microstructural basis of abnormal connectivity in autism	\$276,865	Q2.Other	University of Utah
CAREER: Statistical models and classification of time-varying shape	\$0	Q2.Other	University of Utah
Development of face processing expertise	\$339,118	Q2.Other	University of Toronto
Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$415,385	Q2.S.D	University of Texas Southwestern Medical Center
Investigation of protocadherin-10 in MEF2- and FMRP-mediated synapse elimination	\$55,670	Q2.S.D	University of Texas Southwestern Medical Center
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$393,841	Q2.S.D	University of Texas Southwestern Medical Center
Mechanisms of synapse elimination by autism-linked genes	\$240,115	Q2.S.D	University of Texas Southwestern Medical Center
Motor control and cerebellar maturation in autism	\$157,148	Q2.Other	University of Texas Southwestern Medical Center
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$175,802	Q2.Other	University of Texas Health Science Center, San Antonio
Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders	\$0	Q2.S.A	University of Southern California
Factors influencing early associative learning as a precursor to social behavior heterogeneity	\$54,500	Q2.S.G	University of Southern California

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HCC:Small:Computational studies of social nonverbal communication	\$0	Q2.Other	University of Southern California
Biology of non-coding RNAs associated with psychiatric disorders	\$430,144	Q2.Other	University of Southern California
Function and structure adaptations in forebrain development	\$520,098	Q2.Other	University of Southern California
Emergence and stability of autism in fragile X syndrome	\$343,680	Q2.S.D	University of South Carolina
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$541,983	Q2.Other	University of Rochester
Auditory and integrative functions of the prefrontal cortex	\$374,016	Q2.Other	University of Rochester
Engrailed targets and the control of synaptic circuits in Drosophila	\$361,875	Q2.Other	University of Puerto Rico Medical Sciences Campus
Cognitive control of emotion in autism	\$102,004	Q2.Other	University of Pittsburgh
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	\$29,987	Q2.Other	University of Pittsburgh
Development of ventral stream organization	\$137,338	Q2.Other	University of Pittsburgh
Autoimmunity against novel antigens in neuropsychiatric dysfunction	\$307,200	Q2.S.A	University of Pennsylvania
GABA and Gamma-band Activity: Biomarker for ASD?	\$25,000	Q2.S.D	University of Pennsylvania
The role of genetics in communication deficits in autism spectrum disorders	\$0	Q2.S.D	University of Pennsylvania
Genetic contribution to language-related preclinical biomarkers of autism	\$63,513	Q2.S.D	University of Pennsylvania
Early life seizures disrupt critical period plasticity	\$429,559	Q2.S.E	University of Pennsylvania
Assessing sleep regulation, sleep-dependent memory consolidation, and sleep-dependent synaptic plasticity in mouse genetic models of schizophrenia and autism spectrum disorders	\$32,469	Q2.S.E	University of Pennsylvania
Statistical methodology and analysis of the Simons Simplex Collection and related data	\$80,389	Q2.S.G	University of Pennsylvania
Quantifiable markers of ASD via multivariate MEG-DTI combination	\$257,169	Q2.L.B	University of Pennsylvania
A study of autism	\$0	Q2.L.B	University of Pennsylvania
Novel computational methods for higher order diffusion MRI in autism	\$601,657	Q2.Other	University of Pennsylvania
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$291,317	Q2.Other	University of Pennsylvania
Transcriptional responsiveness in lymphoblastoid cell lines	\$0	Q2.Other	University of Pennsylvania

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Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	\$143,728	Q2.Other	University of Oxford
Subependymal zone function in autism spectrum disorders	\$0	Q2.Other	University of Oxford
Contribution of cerebellar CNTNAP2 to autism in a mouse model	\$60,000	Q2.Other	University of Oxford
Anti-Neuronal Autoantibodies in PANDAS and Autism Spectrum Disorders	\$100,000	Q2.S.A	University of Oklahoma Health Sciences Center
RNA expression at human fragile X synapses	\$59,217	Q2.S.D	University of North Carolina at Chapel Hill and North Carolina State University
A longitudinal MRI study of brain development in fragile X syndrome	\$549,582	Q2.S.D	University of North Carolina at Chapel Hill
Functional and anatomical recovery of synaptic deficits in a mouse model of Angelman Syndrome	\$58,000	Q2.S.D	University of North Carolina at Chapel Hill
Bi-directional regulation of Ube3a stability by cyclic AMP-dependent kinase	\$60,000	Q2.S.D	University of North Carolina at Chapel Hill
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$515,246	Q2.S.E	University of North Carolina at Chapel Hill
Genome-wide identification of variants affecting early human brain development	\$590,292	Q2.S.G	University of North Carolina at Chapel Hill
ACE Network: A longitudinal MRI study of infants at risk for autism	\$2,391,469	Q2.L.A	University of North Carolina at Chapel Hill
Statistical analysis of biomedical imaging data in curved space	\$313,376	Q2.Other	University of North Carolina at Chapel Hill
Regulation of spine morphogenesis by NrCAM	\$213,120	Q2.Other	University of North Carolina at Chapel Hill
Effect of paternal age on mutational burden and behavior in mice	\$177,600	Q2.Other	University of North Carolina at Chapel Hill
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	\$0	Q2.Other	University of North Carolina at Chapel Hill
Neural circuits that regulate social motivation in autism	\$150,542	Q2.Other	University of North Carolina at Chapel Hill
Correcting excitatory-inhibitory imbalance in autism	\$112,500	Q2.Other	University of North Carolina at Chapel Hill
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$0	Q2.S.D	University of North Carolina, Chapel Hill
Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder	\$14,950	Q2.Other	University of New South Wales
Mechanisms of synaptic alterations in a neuroinflammation model of autism	\$0	Q2.S.A	University of Nebraska Medical Center
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	\$0	Q2.S.D	University of Nebraska Medical Center

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Mechanisms of motor skill learning in the fragile X mouse model	\$292,423	Q2.S.D	University of Nebraska Medical Center
Matrix metalloproteinases expression in autism spectrum disorders	\$15,000	Q2.Other	University of Naples
Novel candidate mechanisms of fragile X syndrome	\$249,000	Q2.S.D	University of Michigan
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$373,200	Q2.Other	University of Michigan
Investigating the Role of RBFOX1 in Autism Etiology	\$0	Q2.Other	University of Miami
Cerebellar modulation of frontal cortical function	\$286,989	Q2.Other	University of Memphis
Caspr2 as an autism candidate gene: A proteomic approach to function & structure	\$305,280	Q2.Other	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School
Autism spectrum disorders –inflammatory subtype: Molecular characterization	\$0	Q2.S.A	University of Medicine & Dentistry of New Jersey
The microRNA pathway in translational regulation of neuronal development	\$340,304	Q2.S.D	University of Massachusetts Medical School
A neural model of fronto-parietal mirror neuron system dynamics	\$178,100	Q2.Other	University of Maryland, College Park
How autism affects speech understanding in multitalker environments	\$0	Q2.Other	University of Maryland, College Park
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$506,507	Q2.Other	University of Maryland, College Park
Prostaglandins and cerebellum development	\$356,400	Q2.S.A	University of Maryland, Baltimore
Sensitive periods in cerebellar development	\$32,941	Q2.S.A	University of Maryland, Baltimore
Foxp2 regulation of sex specific transcriptional pathways and brain development	\$88,128	Q2.S.B	University of Maryland, Baltimore
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	Q2.Other	University of Louisville Research Foundation Inc
Children with 7q11.23 duplication syndrome: shared characteristics with autism	\$250,000	Q2.S.G	University of Louisville
16p11.2 rearrangements: Genetic paradigms for neurodevelopmental disorders	\$100,000	Q2.S.D	University of Lausanne
SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	Q2.Other	University of Kentucky Research Foundation
Molecular dissection of calmodulin domain functions	\$310,222	Q2.Other	University of Iowa
Wnt modulation as a treatment for autism spectrum disorders	\$184,568	Q2.Other	University of Iowa
Synaptic phenotype, development, and plasticity in the fragile X mouse	\$379,329	Q2.S.D	University of Illinois at Urbana Champaign
Beta-catenin signaling in autism spectrum disorders	\$60,100	Q2.S.G	University of Illinois at Chicago

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Social interaction and reward in autism: Possible role for ventral tegmental area	\$124,936	Q2.Other	University of Geneva
Physiological studies in a human stem cell model of 15q duplication syndrome	\$60,000	Q2.S.D	University of Connecticut
Molecular mechanisms linking early life seizures, autism and intellectual disability	\$313,576	Q2.S.E	University of Colorado Denver
Salivary melatonin as a biomarker for response to sleep interventions in children with autism	\$0	Q2.S.E	University of Colorado Denver
Neural synchronydysfunction of gamma oscillations in autism	\$254,470	Q2.Other	University of Colorado Denver
Multimodal neuroimaging of motor dysfunction in autism spectrum disorders	\$58,000	Q2.Other	University of Colorado Denver
Evaluating the time-dependent unfolding of social interactions in autism	\$196,987	Q2.Other	University of Cincinnati
Action anticipation in infants	\$105,936	Q2.Other	University of Chicago
Cerebellar plasticity and learning in a mouse model of autism	\$62,500	Q2.Other	University of Chicago
Development of a connectomic functional brain imaging endophenotype of autism	\$13,634	Q2.Other	University of Cambridge
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$29,500	Q2.L.B	University of California, Santa Barbara
Linking circuit dynamics and behavior in a rat model of autism	\$0	Q2.S.D	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$1,142,798	Q2.S.G	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Core Neuroimaging Support Site	\$434,182	Q2.S.G	University of California, San Francisco
A gene-driven systems approach to identifying autism pathology	\$249,874	Q2.S.G	University of California, San Francisco
Role of myelinating cells in autism spectrum disorders	\$60,000	Q2.S.G	University of California, San Francisco
Characterizing the regulatory pathways and regulation of AUTS2	\$0	Q2.Other	University of California, San Francisco
Pathologic and genetic characterization of novel brain cortical patches in young autistic brains	\$53,000	Q2.Other	University of California, San Francisco
A novel transplantation assay to study human PTEN ASD alleles in GABAergic interneurons	\$60,000	Q2.Other	University of California, San Francisco
Role of negative regulators of FGF signaling in frontal cortex development and autism	\$15,000	Q2.Other	University of California, San Francisco
Deciphering the function and regulation of AUTS2	\$0	Q2.Other	University of California, San Francisco
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$0	Q2.Other	University of California, San Francisco

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Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$417,271	Q2.Other	University of California, San Francisco
Relating copy number variants to head and brain size in neuropsychiatric disorders	\$399,146	Q2.S.G	University of California, San Diego
Atypical architecture of prefrontal cortex in young children with autism	\$149,715	Q2.Other	University of California, San Diego
Neural basis of cross-modal influences on perception	\$163,755	Q2.Other	University of California, San Diego
Kinetics of drug macromolecule complex formation	\$687,969	Q2.Other	University of California, San Diego
Influence of attention and arousal on sensory abnormalities in ASD	\$186,000	Q2.Other	University of California, San Diego
Development of the functional neural systems for face expertise	\$461,095	Q2.Other	University of California, San Diego
Stimulus preceding negativity and social stimuli in autism spectrum disorder	\$28,580	Q2.Other	University of California, San Diego
Using fruit flies to map the network of autism-associated genes	\$124,996	Q2.Other	University of California, San Diego
Investigation of sex differences associated with autism candidate gene, Cyfip1	\$32,413	Q2.S.B	University of California, Los Angeles
The role of Fox-1 in neurodevelopment and autistic spectrum disorder	\$145,757	Q2.S.D	University of California, Los Angeles
ACE Center: Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$178,857	Q2.S.G	University of California, Los Angeles
ACE Center: Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$241,951	Q2.S.G	University of California, Los Angeles
Electrophysiologic biomarkers of language function in autism spectrum disorders	\$28,600	Q2.L.B	University of California, Los Angeles
Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$201,838	Q2.Other	University of California, Los Angeles
A functional genomic analysis of the cerebral cortex	\$486,802	Q2.Other	University of California, Los Angeles
Abnormal connectivity in autism	\$15,000	Q2.Other	University of California, Los Angeles
Genetic models of autism in human neural progenitor cells: a platform for therapeutic discovery	\$54,400	Q2.Other	University of California, Los Angeles
Optogenetic treatment of social behavior in autism	\$385,000	Q2.Other	University of California, Los Angeles
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	\$0	Q2.Other	University of California, Los Angeles
Cytoplasmic functions of Rbfox1, a candidate autism gene	\$231,000	Q2.Other	University of California, Los Angeles
BDNF and the restoration of synaptic plasticity in fragile X and autism	\$449,134	Q2.S.D	University of California, Irvine
Cortactin and spine dysfunction in fragile X	\$32,875	Q2.S.D	University of California, Irvine

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Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	\$0	Q2.Other	University of California, Irvine
Integrative functions of the planum temporale	\$432,343	Q2.Other	University of California, Irvine
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$0	Q2.Other	University of California, Davis Medical Center University of California, Davis
Convergence of immune and genetic signaling pathways in autism and schizophrenia	\$29,430	Q2.S.A	University of California, Davis
IL-1beta and IL1RAPL1: Gene-environment interactions regulating synapse density and function in ASD	\$28,600	Q2.S.A	University of California, Davis
Project 3: Immune environment interaction and neurodevelopment	\$109,725	Q2.S.A	University of California, Davis
Mechanism of UBE3A imprint in neurodevelopment	\$7,869	Q2.S.D	University of California, Davis
Alteration of Dendrite and Spine Number and Morphology in Human Prefrontal Cortex of Autism	\$25,000	Q2.S.D	University of California, Davis
Language development in fragile X syndrome	\$509,862	Q2.S.D	University of California, Davis
Genotype-phenotype relationships in fragile X families	\$565,457	Q2.S.D	University of California, Davis
The role of MeCP2 in Rett syndrome	\$344,213	Q2.S.D	University of California, Davis
Amygdala connectivity in autism spectrum disorder	\$52,580	Q2.L.A	University of California, Davis
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	Q2.Other	University of California, Davis
The neural substrates of higher-level learning in autism	\$221,760	Q2.Other	University of California, Davis
Typical and pathological cellular development of the human amygdala	\$369,600	Q2.Other	University of California, Davis
Experience and cognitive development in infancy	\$0	Q2.Other	University of California, Davis
Project 4: Calcium signaling defects in autism (Pessah/Lein)	\$109,730	Q2.Other	University of California, Davis
Cellular density and morphology in the autistic temporal human cerebral cortex	\$352,346	Q2.Other	University of California, Davis
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$0	Q2.Other	University of California, Davis
Neural mechanisms of tactile sensation in rodent somatosensory cortex	\$246,278	Q2.Other	University of California, Berkeley
Inhibitory mechanisms for sensory map plasticity in cerebral cortex	\$316,453	Q2.Other	University of California, Berkeley
Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	\$0	Q2.S.G	University of British Columbia
Met signaling in neural development and circuitry formation	\$230,032	Q2.Other	University of Arizona
MeCP2 modulation of BDNF signaling: Shared mechanisms of Rett and autism	\$303,067	Q2.S.D	University of Alabama at Birmingham

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Role of astrocytic glutamate transporter GLT1 in Fragile X	\$5,000	Q2.S.D	Tufts University
Cerebellar plasticity and learning in a mouse model of autism	\$0	Q2.S.D	The University of Chicago
Understanding the basic neurobiology of Pitt-Hopkins syndrome	\$0	Q2.S.D	The University of Alabama at Birmingham
Impact of SynGAP1 mutations on synapse maturation and cognitive development	\$661,570	Q2.Other	The Scripps Research Institute - Florida
A stem cell based platform for identification of common defects in autism spectrum disorders	\$0	Q2.S.D	The Scripps Research Institute - California
Cell adhesion molecules in CNS development	\$515,850	Q2.Other	The Scripps Research Institute - California
RNA dysregulation in autism	\$250,000	Q2.Other	The Rockefeller University
Simons Variation in Individuals Project (VIP) Structural Imaging and Phenotyping Site - SCAP-local	\$260,788	Q2.S.G	The Children's Hospital of Philadelphia
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$419,819	Q2.S.G	The Children's Hospital of Philadelphia
Mouse Model of Dup15q Syndrome	\$84,253	Q2.S.D	Texas AgriLife Research
The neurophysiology of sensory processing and multisensory integration in ASD	\$437,684	Q2.Other	Syracuse University
NINDS comment: Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$32,615	Q2.Other	State University of New York Upstate Medical Center
Folate receptor autoimmunity in Autism Spectrum Disorders	\$149,755	Q2.S.A	State University of New York, Downstate Medical Center
IMAGING DEPRESSION IN ADULTS WITH ASD	\$192,601	Q2.S.E	State University New York Stony Brook
GABRB3 and prenatal immune events leading to autism	\$62,500	Q2.S.A	Stanford University
GABRB3 and placental vulnerability in ASD	\$523,820	Q2.S.A	Stanford University
Restoring cortical plasticity in a Rett mouse model	\$60,000	Q2.S.D	Stanford University
Revealing protein synthesis defects in fragile X syndrome with new chemical tools	\$337,091	Q2.S.D	Stanford University
Longitudinal MRI study of brain development in fragile X	\$748,506	Q2.S.D	Stanford University
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	\$62,314	Q2.S.D	Stanford University
Mesocorticolimbic dopamine circuitry in mouse models of autism	\$349,295	Q2.S.D	Stanford University
Characterizing sleep disorders in autism spectrum disorder	\$75,107	Q2.S.E	Stanford University
A neuroimaging study of twin pairs with autism	\$599,326	Q2.S.G	Stanford University
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$59,825	Q2.L.B	Stanford University

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Structural and functional connectivity of large-scale brain networks in autism	\$168,978	Q2.Other	Stanford University
Function of neuroligins	\$461,977	Q2.Other	Stanford University
Function and dysfunction of neuroligins in synaptic circuits	\$450,000	Q2.Other	Stanford University
Role of CNTNAP2 in neuronal structural development and synaptic transmission	\$55,200	Q2.Other	Stanford University
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$248,468	Q2.Other	Stanford University
Face perception: Mapping psychological spaces to neural responses	\$0	Q2.Other	Stanford University
Mathematical cognition in autism: A cognitive and systems neuroscience approach	\$610,784	Q2.Other	Stanford University
Frontostriatal synaptic dysfunction in a model of autism	\$52,190	Q2.Other	Stanford University
Role of neuroligin in synapse formation and maintenance	\$53,942	Q2.Other	Stanford University
Investigating the role of neuroligin-1 mutation in autism using human induced neuro	\$49,214	Q2.Other	Stanford University
Brain Systems Supporting Learning and Memory in Children with Autism	\$173,607	Q2.Other	Stanford University
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$451,202	Q2.Other	Sloan-Kettering Institute for Cancer Research
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$51,400	Q2.Other	Seattle Childrens Hospital
Physiology of attention and regulation in children with ASD and LD	\$327,380	Q2.Other	Seattle Children's Hospital
Autism Biomarker Discovery Program	\$1,999,984	Q2.L.B	Seaside Therapeutics
Examining connectivity patterns of brain networks participating in social cognition in ASD	\$0	Q2.Other	San Diego State University
Multimodal imaging of social brain networks in ASD	\$148,945	Q2.Other	San Diego State University
Linking local activity and functional connectivity in autism	\$360,142	Q2.Other	San Diego State University
Thalamocortical connectivity in children and adolescents with ASD-A combined fMRI and DTI approach	\$28,600	Q2.Other	San Diego State University
Dissecting neural mechanisms integrating multiple inputs in C. elegans	\$477,449	Q2.Other	Salk Institute for Biological Studies
ASD - Inflammatory Subtype: Molecular Mechanisms	\$20,148	Q2.S.A	Rutgers University
Multiple systems in theory of mind development	\$0	Q2.Other	Rutgers, The State University of New Jersey - New Brunswick
Amygdala circuitry of impaired social-emotional behavior in autism	\$58,488	Q2.Other	Rosalind Franklin University of Medicine and Science

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Sex-Specific Gene-Environment Interactions Underlying ASD	\$35,000	Q2.S.B	Rockefeller University
Platform for autism treatments from exome analysis	\$100,000	Q2.S.E	Rockefeller University
Self-Regulation and Sleep in Children At Risk for Autism Spectrum Disorders	\$249,000	Q2.S.E	Purdue University
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$248,999	Q2.Other	Princeton University
Assessing the Cognitive Deficits Associated with 16p11.2 Deletion Syndrome	\$59,734	Q2.S.G	Posit Science Corporation
Characterizing mechanistic heterogeneity across ADHD and autism	\$556,250	Q2.Other	Oregon Health & Science University
Computational characterization of language use in autism spectrum disorder	\$692,911	Q2.Other	Oregon Health & Science University
Neurologin, oxidative stress and autism	\$150,000	Q2.Other	Oklahoma Medical Research Foundation
DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$180,832	Q2.Other	Northwestern University
Pragmatic language and social-emotional processing in autism, fragile X, and the FMR1 premutation	\$29,474	Q2.S.D	Northwestern University
Regulation of cortical critical periods in a mouse model of autism	\$0	Q2.S.D	Northwestern University
A family-genetic study of autism and fragile X syndrome	\$593,966	Q2.S.D	Northwestern University
A family-genetic study of language in autism	\$308,419	Q2.S.G	Northwestern University
The flexibility of individuation and ensemble representation	\$47,114	Q2.Other	Northwestern University
Interneuron subtype-specific malfunction in autism spectrum disorders	\$120,000	Q2.Other	New York University School of Medicine
Roles of pro-inflammatory Th17 cells in autism	\$124,989	Q2.S.A	New York University
Translation, synchrony, and cognition	\$375,588	Q2.S.D	New York University
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$61,999	Q2.S.D	New York University
Canonical neural computation in autism	\$321,362	Q2.Other	New York University
Spatial attention in autism spectrum disorders	\$0	Q2.Other	New York University
Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	\$0	Q2.Other	New York University
Brain mitochondrial abnormalities in autism	\$0	Q2.S.A	New York State Institute for Basic Research in Developmental Disabilities
Determining the role of GABA in four animal models of autism	\$166,895	Q2.Other	Neurochlore
CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS	\$99,000	Q2.S.E	Naval Medical Research Center

Project Title	Funding	Strategic Plan Objective	Institution
A collaborative translational autism research program for the military.	\$966,000	Q2.S.G	Nationwide Children's Hospital
Dysregulation of protein synthesis in fragile X syndrome	\$1,089,880	Q2.S.D	National Institutes of Health
Treatment of medical conditions among individuals with autism spectrum disorders	\$488,568	Q2.S.E	National Institutes of Health
Neuroendocrine regulation of metabolism and neurocognition	\$355,088	Q2.S.E	National Institutes of Health
Neuroimmunologic investigations of autism spectrum disorders (ASD)	\$162,856	Q2.S.F	National Institutes of Health
Pediatric brain imaging	\$2,140,977	Q2.L.A	National Institutes of Health
Functional anatomy of face processing in the primate brain	\$1,555,641	Q2.Other	National Institutes of Health
The cognitive neuroscience of autism spectrum disorders	\$997,922	Q2.Other	National Institutes of Health
Learning and plasticity in the human brain	\$392,666	Q2.Other	National Institutes of Health
Probing the Molecular Mechanisms Underlying Autism: Examination of Dysregulated Protein Synthesis	\$49,300	Q2.S.D	National Institute of Mental Health (NIH)
Role of Sema7A in functional organization of neocortex	\$366,120	Q2.S.D	Mount Sinai School of Medicine
Neural basis of behavioral flexibility	\$347,607	Q2.Other	Mount Sinai School of Medicine
Hyperthermia and the amelioration of autism symptoms	\$66,153	Q2.S.A	Montefiore Medical Center
Enhancing neurobehavioural and clinical definitions in autism spectrum disorders	\$14,000	Q2.Other	Monash University
Denritic Cell Function in Autism	\$26,920	Q2.S.A	MIND Institute
Time Perception and Timed Performance in Autism	\$248,938	Q2.Other	Michigan State University
CAREER: The role of prosody in word segmentation and lexical access	\$0	Q2.Other	Michigan State University
CNTNAP2 regulates production, migration and organization of cortical neurons	\$62,496	Q2.Other	Memorial Sloan-Kettering Cancer Center
Connections between autism, serotonin and hedgehog signaling	\$124,401	Q2.S.D	Medical Research Council-National Institute for Medical Research
Functional analysis of EPHB2 mutations in autism	\$124,950	Q2.Other	McLean Hospital
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	\$0	Q2.Other	Max Planck Florida Institute for Neuroscience
Imaging signal transduction in single dendritic spines	\$449,208	Q2.Other	Max Planck Florida Corporation
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Probing the neural basis of social behavior in mice	\$125,000	Q2.S.D	Massachusetts Institute of Technology
Impairments of theory of mind disrupt patterns of brain activity	\$308,160	Q2.Other	Massachusetts Institute of Technology

Project Title	Funding	Strategic Plan Objective	Institution
CAREER: Typical and atypical development of brain regions for theory of mind	\$148,521	Q2.Other	Massachusetts Institute of Technology
Behavioral, fMRI, and anatomical MRI investigations of attention in autism	\$49,214	Q2.Other	Massachusetts Institute of Technology
Shank3 in synaptic function and autism	\$385,200	Q2.Other	Massachusetts Institute of Technology
Brain bases of language deficits in SLI and ASD	\$583,471	Q2.Other	Massachusetts Institute of Technology
Using Drosophila to characterize the molecular pathogenesis of autism	\$234,000	Q2.Other	Massachusetts Institute of Technology
Translational dysregulation in autism pathogenesis and therapy	\$125,000	Q2.S.D	Massachusetts General Hospital
MicroRNAs in synaptic plasticity and behaviors relevant to autism	\$131,220	Q2.S.D	Massachusetts General Hospital
The genomic bridge project (GBP)	\$158,206	Q2.S.G	Massachusetts General Hospital
Local functional connectivity in the brains of people with autism	\$108,297	Q2.L.B	Massachusetts General Hospital
Analysis of autism linked genes in C. elegans	\$62,500	Q2.Other	Massachusetts General Hospital
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	\$125,000	Q2.Other	Massachusetts General Hospital
Molecular signatures of autism genes and the 16p11.2 deletion	\$62,500	Q2.Other	Massachusetts General Hospital
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Q2.Other	Massachusetts General Hospital
3 Tesla 31Phosphorus magnetic resonance spectroscopy in disorder with abnormal bioenergetics	\$0	Q2.Other	Massachusetts General Hospital
Functional connectivity substrates of social and non-social deficits in ASD	\$719,629	Q2.Other	Massachusetts General Hospital
Altered sensorimotor processing in a mouse model of autism	\$60,000	Q2.Other	Louisiana State University School of Veterinary Medicine
Roles of miRNAs in regulation of Foxp2 and in autism	\$15,000	Q2.Other	Louisiana State University
Study of health outcomes in children with autism and their families	\$496,440	Q2.Other	Lewin Group, Inc.
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$149,999	Q2.S.D	King's College London
In-vivo MRS assay of brain glutamate-GABA balance and drug response in autism	\$58,561	Q2.L.B	King's College London
Understanding the brain basis of impaired imitation learning in autism	\$56,900	Q2.Other	Kennedy Krieger Institute
A preliminary investigation of the neurobehavioral basis of sensory behavior in autism	\$20,000	Q2.Other	Kennedy Krieger Institute
EEG-based assessment of functional connectivity in autism	\$175,176	Q2.Other	Kennedy Krieger Institute

Project Title	Funding	Strategic Plan Objective	Institution
Role of LIN28/let-7 axis in autism	\$62,500	Q2.Other	Johns Hopkins University School of Medicine
Why are autistic females rare and severe? An approach to autism gene identification.	\$28,600	Q2.S.B	Johns Hopkins University
Olfactory abnormalities in the modeling of Rett syndrome	\$339,270	Q2.S.D	Johns Hopkins University
Dynamic regulation of Shank3 and ASD	\$604,587	Q2.Other	Johns Hopkins University
The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders	\$15,000	Q2.Other	Johns Hopkins University
GABAergic dysfunction in autism	\$50,000	Q2.Other	Johns Hopkins University
High throughput screen for small molecule probes for neural network development	\$388,800	Q2.Other	Johns Hopkins University
Dysfunction of sensory inhibition in autism	\$258,134	Q2.Other	Johns Hopkins University
Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly	\$0	Q2.S.G	Institute of Psychiatry/King's College London
Investigating brain connectivity in autism at the whole-brain level	\$232,307	Q2.Other	Indiana University
Multigenic basis for autism linked to 22q13 chromosomal region	\$250,000	Q2.S.D	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY
Bayesian variable selection in generalized linear models with missing variables	\$229,953	Q2.Other	Hunter College (City University of New York)
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$14,800	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
A system-level approach for discovery of phenotype specific genetic variation in ASD	\$29,500	Q2.S.G	Hebrew University
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$159,805	Q2.S.G	Harvard University
The Brain Genomics Superstruct Project	\$150,000	Q2.L.B	Harvard University
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$28,600	Q2.L.B	Harvard University
Behavioral and neural responses to emotional faces in individuals with ASD	\$29,871	Q2.Other	Harvard University
A novel essential gene for human cognitive function	\$47,232	Q2.S.D	Harvard Medical School
Analysis of MEF2 in cortical connectivity and autism-associated behaviors	\$49,214	Q2.S.D	Harvard Medical School
The role of UBE3A in autism	\$250,001	Q2.S.D	Harvard Medical School
Characterizing the genetic systems of autism through multi-disease analysis	\$503,306	Q2.S.G	Harvard Medical School
Protein interaction networks in autism	\$62,500	Q2.Other	Harvard Medical School
To study the relationship between low GAD2 levels and anti-GAD antibodies in autistic children	\$0	Q2.S.A	Hartwick College

Project Title	Funding	Strategic Plan Objective	Institution
To Determine Epidermal growth factor (EGF) and EGF Receptor Plasma Concentration and It's Relationship to Hepatocyte Growth Factor (HGF), GABA Levels and Symptom Severity in Autistic Children	\$4,500	Q2.S.A	Hartwick College
Urokinase-type plasminogen activator plasma concentration and its relationship to hepatocyte growth factor (HGF) and GABA levels in autistic children	\$0	Q2.Other	Hartwick College
The social brain in schizophrenia and autism spectrum disorders	\$498,431	Q2.Other	Hartford Hospital
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$0	Q2.Other	Georgia Tech Research Corporation
Mechanisms of mitochondrial dysfunction in autism	\$0	Q2.S.A	Georgia State University
Gesture as a forerunner of linguistic change- insights from autism	\$385,000	Q2.L.A	Georgia State University
Vasopressin receptor polymorphism and social cognition	\$310,085	Q2.Other	Georgia State University
Exploring metabolic dysfunction in the brains of people with autism	\$0	Q2.S.A	George Washington University
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	\$0	Q2.S.D	George Washington University
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$371,791	Q2.Other	Georgetown University
Functional Connectivity during Working Memory in Children with ASD: A NIRS Study	\$29,500	Q2.Other	Georgetown University
Simons Variation in Individuals Project (VIP) Recruitment Core and Phase 2 Coordination Site	\$168,626	Q2.S.G	Geisinger Clinic, Weis Center for Research
Identifying the gene in 17q12 responsible for neuropsychiatric phenotypes	\$228,375	Q2.S.G	Geisinger Clinic
Molecular mechanisms of electrical synapse formation in vivo	\$90,000	Q2.Other	Fred Hutchinson Cancer Research Center
Foundation Associates agreement (BrainNet)	\$250,000	Q2.S.C	Foundation Associates, LLC
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish	\$137,605	Q2.Other	Florida International University
MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER	\$190,577	Q2.S.A	Feinstein Institute for Medical Research
The role of UBE3A in autism: Is there a critical window for social development?	\$54,450	Q2.S.D	Erasmus University Medical Center
Modulation of RhoA signaling by the mRNA binding protein hnRNPQ1	\$30,912	Q2.S.D	Emory University
Simons Variation in Individuals Project (Simons VIP)	\$372,288	Q2.S.G	Emory University
Language processing in children with 22q11 deletion syndrome and autism	\$0	Q2.S.G	Emory University

Project Title	Funding	Strategic Plan Objective	Institution
ACE Center: Predicting risk and resilience in ASD through social visual engagement	\$226,068	Q2.L.B	Emory University
Identification and analysis of ASD patients with PI3K/mTOR signalopathies	\$66,500	Q2.Other	Emory University
Behavioral and neural processing of faces and expressions in nonhuman primates	\$334,541	Q2.Other	Emory University
ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	\$304,370	Q2.Other	Emory University
Verbal/non-verbal asynchrony in adolescents with high-functioning autism	\$402,978	Q2.Other	Emerson College
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$41,575	Q2.Other	Emerson College
White matter glial pathology in autism	\$0	Q2.Other	East Tennessee State University
Mapping functional neural circuits that mediate social behaviors in autism	\$62,500	Q2.Other	Duke University Medical Center
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$589,750	Q2.S.E	Duke University
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$173,826	Q2.S.E	Duke University
Animal model of genetics and social behavior in autism spectrum disorders	\$658,361	Q2.S.G	Duke University
The Role of Shank3 in Neocortex Versus Striatum and the Pathophysiology of Autism	\$25,000	Q2.S.G	Duke University
Analysis of Shank3 complete and temporal and spatial specific knockout mice	\$408,192	Q2.Other	Duke University
Neuronal basis of vicarious reinforcement dysfunction in autism spectrum disorder	\$297,527	Q2.Other	Duke University
The striatal circuitry underlying autistic-like behaviors	\$31,975	Q2.Other	Duke University
Engagement of Social Cognitive Networks during Game Play in Autism	\$0	Q2.Other	Duke University
Dissecting Reciprocal CNVs Associated With Autism	\$0	Q2.Other	Duke University
Presynaptic Fragile X Proteins	\$249,000	Q2.S.D	Drexel University
The impact of Pten signaling on neuronal form and function	\$375,706	Q2.Other	Dartmouth College
Neural underpinning of emotion perception and its disorders	\$15,000	Q2.Other	Dartmouth College
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	\$401,927	Q2.S.D	Dana-Farber Cancer Institute
Transcriptional control of inhibitory synapse formation	\$353,295	Q2.Other	Dana-Farber Cancer Institute

Project Title	Funding	Strategic Plan Objective	Institution
Preference acquisition in children and adolescents with and without autism spectrum disorder	\$0	Q2.Other	Dalhousie University
Assessment of glutamate delta-1 receptor in mental disorders	\$218,250	Q2.Other	Creighton University
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Q2.Other	Cornell University
Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	Q2.S.A	Columbia University
Phagocytosis is misregulated in a Drosophila model of Fragile X syndrome	\$47,232	Q2.S.D	Columbia University
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	\$150,000	Q2.S.D	Columbia University
Molecular analysis of gene-environment interactions in the intestines of children with autism	\$150,000	Q2.S.E	Columbia University
Simons Variation in Individuals Project (VIP) Principal Investigator	\$123,623	Q2.S.G	Columbia University
Simons Variation in Individuals Project (VIP) Statistical Core Site	\$221,381	Q2.S.G	Columbia University
Neuroprotective effects of oxytocin receptor signaling in the enteric nervous system	\$0	Q2.Other	Columbia University
Role of neurexin in the amygdala and associated fear memory	\$0	Q2.Other	Columbia University
Neurexin-neuroligin trans-synaptic interaction in learning and memory	\$100,000	Q2.Other	Columbia University
Investigation of a possible role of the protocadherin gene cluster in autism	\$150,000	Q2.Other	Columbia University
Modeling alteration of RBFOX1 (A2BP1) target network in autism	\$60,000	Q2.Other	Columbia University
Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder	\$0	Q2.S.D	Cold Spring Harbor Laboratory
Auditory cortical plasticity in a mouse model of Rett syndrome	\$43,501	Q2.S.D	Cold Spring Harbor Laboratory
Cell adhesion molecules in autism: A whole-brain study of genetic mouse models	\$448,320	Q2.Other	Cold Spring Harbor Laboratory
Investigation of social brain circuits and fever-evoked response in 16p11.2 mice	\$0	Q2.Other	Cold Spring Harbor Laboratory
Social brain circuits and fever-evoked response in 16p11.2 mice	\$87,500	Q2.Other	Cold Spring Harbor Laboratory
Alterations in brain-wide neuroanatomy in autism mouse models	\$300,000	Q2.Other	Cold Spring Harbor Laboratory

Project Title	Funding	Strategic Plan Objective	Institution
Astrocyte function in genetic mouse models of autism spectrum disorders	\$394,063	Q2.S.D	Cleveland Clinic Lerner College of Medicine, Case Western Reserve University
Behavioral and cognitive characteristics of females and males with autism	\$0	Q2.S.B	Cleveland Clinic Foundation
Pragmatics and semantics in autism spectrum disorder	\$27,487	Q2.Other	City University of New York Graduate School and University Center
The neural bases of top-down attentional control in autism spectrum disorders	\$27,578	Q2.Other	City College of New York
Testing the ribosomal protein S6 as treatment target and biomarker in autism spectrum disorders	\$60,000	Q2.S.D	Cincinnati Childrens Hospital Medical Center
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	\$0	Q2.Other	Cincinnati Children's Hospital Medical Center University of Cincinnati
Selective disruption of hippocampal dentate granule cells in autism: Impact of PT	\$396,897	Q2.S.E	Cincinnati Children's Hospital Medical Center
Activity-dependent Mechanisms of Visual Circuit Formation	\$0	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?	\$99,820	Q2.S.E	Children's Mercy Hospital
Phenotypic characterization of MECP2 mice	\$64,742	Q2.S.D	Children's Hospital of Philadelphia
Characterizing 22q11.2 abnormalities	\$62,498	Q2.S.D	Children's Hospital of Philadelphia
Simons Variation in Individuals Project (Simons VIP) Functional Imaging Site and Structural Imaging/Phenotyping Site	\$0	Q2.S.G	Children's Hospital of Philadelphia
Testing the hyperspecificity hypothesis: A neural theory of autism	\$189,836	Q2.Other	Children's Hospital of Philadelphia
Structural and functional neuroimaging of the auditory system in autism	\$157,938	Q2.Other	Children's Hospital of Philadelphia
Functional connectivity in autism spectrum disorders	\$251,250	Q2.Other	Children's Hospital of Philadelphia
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$141,976	Q2.S.D	Case Western Reserve University
Identification of genes responsible for a genetic cause of autism	\$125,000	Q2.Other	Case Western Reserve University
ERK signaling in autism associated with copy number variation of 16p11.2	\$0	Q2.Other	Case Western Reserve University
Impact of NR2B mutations on NMDA receptors and synapse formation	\$60,000	Q2.Other	Case Western Reserve University
Reliability of Sensory-Evoked Activity in Autism Spectrum Disorders- Project 1	\$0	Q2.L.B	Carnegie Mellon University
CDI-TYPE II: From language to neural representations of meaning	\$0	Q2.Other	Carnegie Mellon University

Project Title	Funding	Strategic Plan Objective	Institution
Using high definition fiber tracking to define developmental neurobiologic mechanisms & a neural basis for behavioral heterogeneity	\$0	Q2.Other	Carnegie Mellon University
Unreliability of neuronal responses in mouse models of autism	\$62,500	Q2.Other	Carnegie Mellon University
The mechanism of the maternal infection risk factor for autism	\$150,000	Q2.S.A	California Institute of Technology
Direct recording from autism brains	\$120,148	Q2.S.E	California Institute of Technology
Single-unit recordings in neurosurgical patients with autism	\$56,900	Q2.S.E	California Institute of Technology
CAREER: Dissecting the neural mechanisms for face detection	\$0	Q2.Other	California Institute of Technology
Autism and the insula: Genomic and neural circuits	\$0	Q2.Other	California Institute of Technology
Investigating brain organization and activation in autism at the whole-brain level	\$30,000	Q2.Other	California Institute of Technology
The computational basis of theory of mind in the human brain	\$130,695	Q2.Other	California Institute of Technology
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$62,500	Q2.S.D	Brown University
Development of vision and attention in typical and ASD individuals	\$305,682	Q2.S.G	Brown University
Role of endosomal NHE6 in brain connectivity and autism	\$62,500	Q2.Other	Brown University
Genetic-imaging study of obsessive compulsive behavior in autism	\$360,826	Q2.Other	Brown University
Role of the 16p11.2 CNV in autism: genetic, cognitive and synaptic/circuit analyses	\$0	Q2.S.G	Broad Institute, Inc.
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$325,130	Q2.Other	Brandeis University
Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS	\$27,814	Q2.Other	Brandeis University
The effects of autism on the sign language development of deaf children	\$53,942	Q2.Other	Boston University
Artifacts as windows to other minds: Social reasoning in typical and ASD children	\$49,214	Q2.Other	Boston University
Neuropeptide regulation of juvenile social behaviors	\$14,775	Q2.Other	Boston College
Role of microglia and complement at developing synapses in ASD	\$122,500	Q2.S.A	Boston Children's Hospital
Mechanisms Underlying the Cerebellar Contribution to Autism in Mouse Models of Tu	\$190,458	Q2.S.D	Boston Children's Hospital
MRI biomarkers of patients with tuberous sclerosis complex and autism	\$720,276	Q2.S.D	Boston Children's Hospital

Project Title	Funding	Strategic Plan Objective	Institution
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$149,967	Q2.S.D	Boston Children's Hospital
Probing synaptic receptor composition in mouse models of autism	\$249,995	Q2.S.D	Boston Children's Hospital
Simons Variation in Individuals Project (VIP) Site	\$624,864	Q2.S.G	Boston Children's Hospital
Characterization of infants and toddlers with the 16p copy-number variation	\$149,372	Q2.S.G	Boston Children's Hospital
Understanding the etiological significance of attentional disengagement in infants at-risk for ASD	\$49,000	Q2.L.A	Boston Children's Hospital
Corticothalamic circuit interactions in autism	\$200,000	Q2.Other	Boston Children's Hospital
Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder	\$367,304	Q2.S.D	Beth Israel Deaconess Medical Center
Neurobiology of aggression co-morbidity in mouse model of idic15 autism	\$261,000	Q2.S.E	Beth Israel Deaconess Medical Center
The effects of disturbed sleep on sleep-dependent memory consolidation and daily function in individuals with ASD	\$0	Q2.S.E	Beth Israel Deaconess Medical Center
TMLHE deficiency and a carnitine hypothesis for autism	\$60,000	Q2.S.D	Baylor College of Medicine
Motor cortex plasticity in MeCP2 duplication syndrome	\$125,000	Q2.S.D	Baylor College of Medicine
Mutations associated with carnitine deficiency: risk factor for regression in ASD	\$78,650	Q2.S.F	Baylor College of Medicine
Simons Variation in Individuals Project (VIP) Site	\$316,306	Q2.S.G	Baylor College of Medicine
High throughput sequencing of autism spectrum disorder (ASD) endophenotypes	\$39,432	Q2.S.G	Baylor College of Medicine
Multisensory processing in autism	\$0	Q2.Other	Baylor College of Medicine
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	Q2.Other	Baylor College of Medicine
Hippocampal mechanisms of social learning in animal models of autism	\$62,500	Q2.Other	Baylor College of Medicine
Building awareness of the value of brain tissue donation for autism research	\$360,525	Q2.S.C	Autism Science Foundation
Addressing challenges to post-mortem tissue donation in families affected with autism	\$64,000	Q2.S.C	Autism Science Foundation
Dysregulation of mTOR signaling in fragile X syndrome	\$467,760	Q2.S.D	Albert Einstein College of Medicine of Yeshiva University
The role of mTOR inhibitors in the treatment of autistic symptoms in symptomatic infantile spasms	\$0	Q2.S.E	Albert Einstein College of Medicine of Yeshiva University
Sensory processing and integration in autism	\$524,517	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Modeling 5-HT-absorbing neurons in neuropathology of autism	\$200,400	Q2.Other	Albert Einstein College of Medicine of Yeshiva University

Project Title	Funding	Strategic Plan Objective	Institution
Novel regulatory network involving non-coding role of an ASD candidate gene PTEN	\$240,480	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$404,100	Q2.Other	Albert Einstein College of Medicine of Yeshiva University

